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(54) PHOTO-SETTING COMPOSITION FOR DENTAL MATERIAL

(57) Abstract:

PURPOSE: To provide the titled composition composed of a specific liquid thioether-type polymerizable monomer and a polymerizable polyfunctional vinyl monomer, having excellent polymerization curability at normal temperature and giving a cured product having excellent hardness and strength.

CONSTITUTION: The objective composition is produced by compounding (A) $\geq 50\text{wt.}\%$ of a liquid thioether-type monomer produced by the addition reaction of (A₁) a polyene compound of formula I [R¹ and R² are H or CH₃; R³ is 2W20C (OH-containing) aliphatic polyhydric alcohol residue or polyalkylene ether polyol residue; m is 1 or 2] with (A₂) a polythiol compound of formula II [R⁴ is 2W10C (OH-containing) polyvalent aliphatic hydrocarbon residue;

p is 1W4] and/or formula III [R⁵ is 2W20C (OH-containing) aliphatic polyhydric alcohol residue; q is 1 or 2; r is 1W4] in the presence of a basic catalyst at a functional group equivalent ratio (A₁/A₂) of 2W10 with (B) $\leq 50\text{wt.}\%$ of a polyfunctional vinyl monomer, e.g. the compound of formula such as bis(β-acryloyloxyethyl)phthalate.

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